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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/708,979 04/05/2004		Longzhi Jiang	GEMS 0219 PA	2978	
27256 Dickinson Wri	27256 7590 07/03/2007 Dickinson Wright PLLC			EXAMINER	
38525 Woodward Avenue			VARGAS, E	VARGAS, DIXOMARA	
Suite 2000 Bloomfield Hills, MI 48304		•	ART UNIT	PAPER NUMBER	
			2859		
			·		
		•	MAIL DATE	DELIVERY MODE	
			07/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
Office Action Summary		10/708,979	JIANG ET AL.
		Examiner	Art Unit
		Dixomara Vargas	2859
The MAILING Period for Reply	DATE of this communication app	ears on the cover sheet with the	correspondence address
A SHORTENED ST WHICHEVER IS LC - Extensions of time may be after SIX (6) MONTHS fir - If NO period for reply is s - Failure to reply within the Any reply received by the	ATUTORY PERIOD FOR REPLY DINGER, FROM THE MAILING DATE available under the provisions of 37 CFR 1.13 cm the mailing date of this communication. pecified above, the maximum statutory period we set or extended period for reply will, by statute, office later than three months after the mailing tment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to the apply and will expire SIX (6) MONTHS from the application to become ABANDON	DN. timely filed m the mailing date of this communication. JED (35 U.S.C. § 133).
Status			
2a)⊠ This action is 3)□ Since this app	FINAL. 2b) This blication is in condition for alloward	action is non-final.	
Disposition of Claims	ordanios with the produce difficil E	x parto quayio, 1000 O.D. 11, -	100 0.0. 210.
4) Claim(s) 1-20 4a) Of the abo 5) Claim(s) 6) Claim(s) 1.6.7 7) Claim(s) 2-5.8 8) Claim(s) Application Papers 9) The specification 10) The drawing(s) Applicant may be replacemented	7,10,11,15 and 16 is/are rejected. 3,9,12-14 and 17-20 is/are objected are subject to restriction and/or on is objected to by the Examiner of is/are: a) filed on 05 April 2004 is/are: a) for request that any objection to the crawing sheet(s) including the correction	vn from consideration. ed to. relection requirement. r. ☑ accepted or b) ☐ objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
11) The oath or de	claration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.
a) All b) S 1. Certified 2. Certified 3. Copies applicat	ent is made of a claim for foreign ome * c) None of: d copies of the priority documents d copies of the priority documents of the certified copies of the priority of the certified copies of the priority documents and the certified copies of the priority documents are considered to the certified copies of the priority documents are considered to the certified copies of the priority documents are considered to the certified copies of the priority documents are considered to the certified copies of the priority documents are considered to the certified copies of the priority documents are considered to the certified copies of the priority documents are considered to the certified copies of the priority documents are considered to the copies of the priority documents are considered to the copies of the priority documents are copies of the priority documents.	s have been received. s have been received in Applicative documents have been received (PCT Rule 17.2(a)).	tion No ved in this National Stage
	s Patent Drawing Review (PTO-948) Statement(s) (PTO/SB/08)	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Date

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 6-7, 10-11 and 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Goldberg et al. (US 5,317,879 A).

With respect to claims 1, 10 and 16, Goldberg discloses a magnetic resonance imaging assembly comprising (Abstract; as seen on Figure 1): a outer thermal shield having an operational temperature (#20 and #21); and a cold head sleeve assembly comprising: a cold head sleeve (#10), a plurality of braid elements (copper ropes #17, #18, #33 and #34 braided) mounted to a cooler block (cooper station #12 in stage 1 of sleeve), said plurality of braid elements connecting said cold head sleeve to said cooler block (as seen on Figure 2 top view); a highly thermally conductive block (interfaces #23, #37, #38) mounted between said cooler block and said outer thermal shield (as seen on Figure 2), said highly thermally conductive block welded to said outer thermal shield and welded to said cooler block (Column 3, lines 21-40), said highly thermally conductive block having greater thermal conductivity than said outer thermal shield (Column 2, lines 56-62).

3. With respect to claims 6 and 11, Goldberg discloses a cooler block comprised of copper (Column 2, line 63).

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4. With respect to claims 7 and 15, Goldberg discloses said operation temperature is less than 50 degrees Kelvin (Column 2, line 63).

Allowable Subject Matter

5. Claims 2-5, 8-9, 12-14 and 17-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

- 6. Applicant's arguments filed 04/27/07 have been fully considered but they are not persuasive.
- 7. Applicant argues that Goldberg fails to teach or fairly suggest two independent elements, a cooler block and a thermally conductive block.
- 8. The examine disagrees with applicant's argument because Goldberg discloses two different elements a cooler block (Figure 1, #12) and a thermally conductive block (Figure 1, #23, #37, #38) as stated in the 35 U.S.C. 102(b) rejection above wherein the conductive block (#23) is located between the cooler block (#12) and the shield (#20) in axis (#6).

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dixomara Vargas whose telephone number is (571) 272-2252. The examiner can normally be reached on Monday to Thursday from 8:00 am. to 4:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (571) 272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dixomara Vargas Patent Examiner

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Diego Gutierrez Supervisory Patent Examiner

Technology Center 2800

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